

Supplementary Material

The influence of reservoir traits on carbon dioxide emissions in the Belo Monte hydropower complex, Xingu River, Amazon – Brazil

Kleiton R. Araújo^{1*}, Henrique O. Sawakuchi²⁻³, Dailson J. Bertassoli Jr.⁴, André O. Sawakuchi^{1,4}, Karina D. da Silva^{1,5}, Thiago V. Bernardi^{1,5}, Nicholas D. Ward⁶⁻⁷, Tatiana S. Pereira^{1,5}.

¹Programa de Pós Graduação em Biodiversidade e Conservação, Universidade Federal do Pará, Altamira, 68372 – 040, Brazil,

²Centro de Energia Nuclear na Agricultura, Universidade de São Paulo, Piracicaba, Brazil,

³Department of Ecology and Environmental Science, Umeå University, Umeå, SE-901 87, Sweden,

⁴Instituto de Geociências, Universidade de São Paulo, São Paulo, Brazil,

⁵Faculdade de Ciências Biológicas, Universidade Federal do Pará, Altamira, 68372 – 040, Brazil,

⁶Marine Sciences Laboratory, Pacific Northwest National Laboratory, Sequim, Washington, 98382, USA,

⁷School of Oceanography, University of Washington, Seattle, Washington, 98195-5351, USA.

*Correspondence to: Kleiton R. Araújo (kleitonrabelo@rocketmail.com)

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32 **1. Sampling details**

33 Based on visualization in Google Earth we estimate that the maximum distance
34 drifted may be approximately 1 km for measurements in the river channel up
35 and downstream of the reservoirs. In sheltered areas located in bays and over
36 islands with standing trees, where the water flow was very low, drifting was very
37 short and caused by wind. An estimate of the drifting distance in the natural
38 river channel and in the main channel of the Xingu Reservoir was obtained by
39 using the average water velocity measured by the National Water Agency of
40 Brazil at the Altamira station. We separated the historical values into before and
41 after 2016, when the dams was completed. Therefore, representing estimates
42 of water velocity in the natural river (between 2005 and 2016), and in the Xingu
43 Reservoir main channel (after 2016). The average water velocities at Altamira
44 are 0.74 and 0.24 m s⁻¹ for before and after the dam, respectively. Assuming
45 that there is no resistance of the boat with the water or air, drifting speed is
46 similar to the water velocity. The total time of deployment was up to 30 minutes
47 for the three consecutive measurements. Based on these we found that in the
48 main channel of the Xingu Reservoir the drifting distance would be 432 m, and
49 1332 m for the natural river channel up and downstream the reservoirs.

50 **2. Depth profiles**

51 During high water of 2016 and 2017 we registered depth profiles for physical-
52 chemical variables through whole sampling area. We measured water column
53 pH, depth, dissolved oxygen (DO), conductivity and temperature using a
54 multiparameter probe (EXO2®, YSI). The depth profiles were registered until
55 near bottom depth (approximately 80 % of total depth) to avoid sediment
56 interaction. Total depths are listed on table 1 of the manuscript. Depth profile
57 tables are presented by year and flow order, respectively.

58 Table S1 – P1 site depth profile from 2016 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.65	6.43	29.208	23.5	0.166
6.61	6.43	29.208	23.5	0.212
6.53	6.43	29.208	23.5	0.265
6.5	6.43	29.201	23.5	0.283
6.5	6.43	29.195	23.5	0.401

6.55	6.42	29.195	23.5	0.678
6.6	6.41	29.184	23.5	1.046
6.56	6.41	29.191	23.5	1.416
6.61	6.4	29.209	23.5	1.787
6.62	6.4	29.207	23.5	2.171
6.63	6.4	29.217	23.5	2.614
6.63	6.4	29.198	23.5	2.831
6.63	6.4	29.191	23.5	3.039
6.62	6.39	29.2	23.5	4.061
6.64	6.4	29.213	23.5	4.165
6.64	6.39	29.205	23.5	4.359
6.64	6.38	29.211	23.5	4.723
6.63	6.38	29.203	23.5	5.145
6.65	6.37	29.205	23.5	5.632
6.69	6.37	29.209	23.5	6.042
6.65	6.37	29.203	23.5	6.453
6.63	6.37	29.202	23.5	7.633
6.66	6.37	29.2	23.5	8.006
6.62	6.37	29.198	23.5	9.085
6.61	6.36	29.198	23.5	9.492
6.61	6.36	29.198	23.5	10.793
6.62	6.35	29.197	23.5	11.27
6.6	6.35	29.198	23.5	12.4
6.56	6.34	29.2	23.5	12.796
6.59	6.34	29.198	23.5	13.738
6.56	6.33	29.2	23.5	14.053
6.56	6.33	29.199	23.5	15.073
6.58	6.32	29.198	23.5	15.3

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60 Table S2 – P6 site depth profile from 2016 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.09	4.99	29.761	21.9	0.397
6.04	3.95	29.568	22.3	0.759
5.97	3.72	29.495	22.5	1.075
5.97	3.86	29.422	22.3	1.373
6.01	3.88	29.426	22.4	1.494
6.05	3.82	29.438	22.4	1.453
6.11	3.77	29.449	22.4	1.383
6.16	3.8	29.448	22.4	1.377
6.15	3.86	29.435	22.3	1.382
6.15	3.87	29.44	22.4	1.378
6.14	3.86	29.445	22.4	1.359

6.14	3.82	29.456	22.5	1.344
6.12	3.75	29.462	22.5	1.343

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62 Table S3 – P7 site depth profile from 2016 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.72	7.04	29.555	21.6	0.102
6.67	7.03	29.538	21.6	0.223
6.64	7.02	29.518	21.6	1.222
6.68	7.02	29.508	21.6	1.279
6.74	7	29.473	21.6	1.411
6.73	7	29.48	21.6	1.602
6.75	6.99	29.467	21.6	1.803
6.8	6.99	29.468	21.6	1.965
6.83	6.99	29.475	21.6	2.167
6.82	6.99	29.48	21.6	2.351
6.8	6.99	29.475	21.6	2.538
6.79	6.98	29.466	21.6	2.767
6.79	6.99	29.487	21.6	3.018
6.83	6.98	29.482	21.6	3.283
6.85	6.99	29.492	21.6	3.546
6.85	6.98	29.483	21.6	3.825
6.86	6.98	29.482	21.6	4.102
6.82	6.98	29.478	21.6	4.379
6.8	6.97	29.476	21.6	4.656
6.84	6.97	29.471	21.6	4.966
6.84	6.97	29.481	21.6	5.29
6.82	6.97	29.484	21.6	5.6
6.83	6.97	29.482	21.6	5.958
6.82	6.96	29.477	21.6	7.127
6.78	6.96	29.48	21.6	7.444
6.77	6.95	29.479	21.6	8.549
6.77	6.95	29.477	21.6	8.913
6.8	6.94	29.479	21.6	9.249
6.82	6.94	29.476	21.6	10.418
6.82	6.94	29.476	21.6	10.691
6.79	6.93	29.477	21.6	10.904

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64 Table S4 – P8 site depth profile from 2016 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.48	6.84	30.409	24.3	0.143

6.48	6.8	30.408	24.3	0.286
6.51	6.82	30.415	24.3	0.296
6.54	6.8	30.415	24.3	0.327
6.57	6.79	30.418	24.3	0.345
6.58	6.81	30.422	24.3	0.341
6.59	6.83	30.416	24.3	0.331
6.6	6.81	30.417	24.3	0.33
6.61	6.79	30.417	24.3	0.32
6.63	6.79	30.416	24.3	0.319
6.66	6.8	30.413	24.3	0.32
6.7	6.81	30.42	24.3	0.324
6.7	6.82	30.419	24.3	0.318
6.7	6.8	30.416	24.3	0.308
6.7	6.8	30.424	24.3	0.303

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66 Table S5 – P12 site depth profile from 2016 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.33	6.13	29.803	22.5	0.184
6.3	6.05	29.83	22.5	0.44
6.3	6.06	29.988	22.5	0.622
6.32	5.96	29.594	22.4	1.542
6.34	5.89	29.498	22.4	1.814
6.35	5.83	29.454	22.3	2.055
6.36	5.78	29.421	22.3	2.419
6.37	5.76	29.406	22.3	2.819
6.36	5.74	29.401	22.3	3.071
6.36	5.72	29.395	22.3	3.312
6.37	5.7	29.391	22.3	3.56
6.39	5.68	29.386	22.3	3.897
6.38	5.64	29.367	22.3	4.283
6.39	5.62	29.357	22.4	4.738
6.39	5.61	29.353	22.3	5.037
6.39	5.61	29.355	22.3	5.104
6.4	5.62	29.372	22.3	4.896
6.43	5.63	29.377	22.4	4.701
6.45	5.64	29.383	22.4	4.531

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68 Table S6 – P15 site depth profile from 2016 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
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6.44	6.47	29.516	22.6	0.969
6.39	6.44	29.529	22.6	2.615
6.41	6.43	29.526	22.6	3.157
6.45	6.42	29.527	22.5	4.641
6.47	6.41	29.527	22.6	6.059
6.49	6.4	29.527	22.6	7.644
6.68	6.39	29.528	22.6	8.447
6.66	6.36	29.528	22.6	8.707
6.65	6.37	29.528	22.6	8.926

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70 Table S7 – P11 site depth profile from 2016 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.3	6.58	29.444	17.5	1.43
6.3	6.45	29.451	22.6	3.677
6.34	6.42	29.458	22.6	7.086
6.39	6.39	29.455	22.6	9.411
6.46	6.36	29.433	22.7	12.642
6.53	6.35	29.423	22.7	15.238
6.54	6.33	29.422	22.7	19.197
6.55	6.27	29.413	23	20.501
6.6	6.26	29.411	22.8	20.59
6.64	6.25	29.411	22.8	20.563
6.66	6.3	29.412	22.7	20.475

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72 Table S8 – P14 site depth profile from 2016 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.59	7.19	29.67	23.1	1.374
6.57	7.2	29.666	23	2.37
6.54	7.22	29.664	23	2.877
6.51	7.22	29.664	23	4.137
6.52	7.22	29.666	23	4.648
6.54	7.23	29.66	22.9	5.757
6.63	7.23	29.664	22.9	6.036
6.64	7.22	29.665	22.9	7.077
6.63	7.24	29.659	22.9	7.436
6.59	7.24	29.662	22.9	7.655

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74 Table S9 – P19 site depth profile from 2016 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.63	6.78	29.647	19	0.128
6.56	6.47	29.665	26.3	0.286
6.57	6.42	29.685	26.4	0.456
6.59	6.46	29.676	26.3	0.525
6.59	6.1	29.657	26.5	0.579
6.6	6.74	29.71	26.2	0.658
6.65	6.87	29.724	25.7	0.776
6.68	6.34	29.712	26.2	0.926
6.63	5.74	29.716	27	1.076
6.57	5.31	29.681	27.4	1.235
6.55	5.19	29.627	27.5	1.447
6.54	5.02	29.625	27.6	1.722
6.53	4.94	29.644	27.7	2.024
6.53	4.9	29.63	27.7	2.37
6.55	4.84	29.608	27.7	2.721
6.56	4.93	29.592	27.6	3.096
6.55	4.79	29.591	27.7	4.253
6.52	4.13	29.601	28.1	4.597
6.5	3.8	29.524	28.5	4.82
6.5	4.68	29.572	28	5.157
6.52	4.5	29.566	27.9	5.641
6.51	3.74	29.509	28.3	6.091
6.48	3.64	29.481	28.6	6.569
6.48	3.45	29.476	28.7	7.002
6.49	3.91	29.515	28.3	8.164
6.47	3.61	29.482	28.6	8.637

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76 Table S10 – P21 site depth profile from 2016 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.88	8.01	29.843	24.6	0.578
6.87	8	29.843	24.6	0.776
6.86	8	29.844	24.6	1.014
6.87	8	29.844	24.6	1.271
6.89	8	29.844	24.6	1.546
6.92	8	29.844	24.6	1.784
6.9	8	29.844	24.6	2.014
6.9	8	29.844	24.6	2.281
6.91	8	29.844	24.6	2.587
6.94	7.99	29.843	24.6	2.903
6.94	7.99	29.844	24.6	3.125
6.93	7.99	29.845	24.6	3.312

6.92	7.99	29.845	24.6	3.483
6.92	7.99	29.846	24.6	3.734
6.92	7.98	29.846	24.6	4.033
6.91	7.99	29.845	24.6	4.269
6.9	7.99	29.844	24.6	4.381
6.91	7.98	29.845	24.6	5.535
6.93	7.98	29.846	24.6	5.868
6.93	7.97	29.847	24.6	7.08
6.96	7.97	29.848	24.6	7.244
6.95	7.96	29.848	24.6	8.487
6.92	7.96	29.847	24.6	8.363
6.9	7.96	29.847	24.6	8.267

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78 Table S11 – P4 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
7.22	7.15	29.552	33.6	0.313
7.21	7.15	29.553	33.5	0.422
7.21	7.14	29.553	33.5	0.528
7.2	7.14	29.553	33.5	0.622
7.19	7.14	29.553	33.5	0.724
7.19	7.13	29.553	33.5	0.83
7.18	7.13	29.552	33.5	0.944
7.18	7.13	29.552	33.5	1.118
7.18	7.13	29.552	33.5	1.275
7.17	7.13	29.553	33.5	1.42
7.17	7.13	29.552	33.5	1.573
7.16	7.12	29.552	33.4	1.721
7.16	7.12	29.552	33.4	1.868
7.15	7.12	29.553	33.5	2.017
7.15	7.12	29.553	33.5	2.15
7.15	7.12	29.552	33.5	2.284
7.14	7.12	29.552	33.4	2.402
7.14	7.12	29.552	33.4	2.483
7.13	7.12	29.552	33.4	2.505
7.13	7.12	29.552	33.4	2.53
7.12	7.12	29.552	33.4	2.557
7.12	7.12	29.552	33.4	2.602
7.12	7.12	29.552	33.4	2.668
7.12	7.11	29.552	33.5	2.728
7.11	7.11	29.552	33.5	2.813
7.11	7.11	29.552	33.4	2.922
7.11	7.11	29.552	33.4	3.06

7.11	7.11	29.552	33.4	3.204
7.11	7.11	29.552	33.4	3.318
7.11	7.11	29.552	33.4	3.406
7.1	7.11	29.552	33.4	3.503
7.1	7.11	29.552	33.4	3.624
7.1	7.11	29.552	33.4	3.768
7.09	7.11	29.552	33.4	3.922
7.09	7.1	29.553	33.4	4.054
7.09	7.1	29.553	33.4	4.185
7.09	7.1	29.553	33.4	4.347
7.09	7.1	29.553	33.4	4.5
7.09	7.1	29.553	33.4	4.628
7.09	7.1	29.553	33.4	4.719
7.09	7.1	29.553	33.4	4.807
7.08	7.1	29.552	33.4	4.908
7.08	7.1	29.552	33.4	5.027
7.07	7.1	29.553	33.4	5.148
7.05	7.1	29.553	33.4	5.259
7.04	7.1	29.553	33.4	5.369
7.02	7.1	29.553	33.4	5.501
7.01	7.09	29.553	33.4	5.666
6.99	7.09	29.553	33.4	5.828
6.98	7.09	29.553	33.4	5.987
6.96	7.09	29.553	33.4	6.132
6.93	7.09	29.553	33.4	6.274
6.91	7.09	29.553	33.4	6.414
6.88	7.09	29.553	33.4	6.563
6.86	7.09	29.553	33.4	6.687
6.85	7.09	29.553	33.4	6.77
6.84	7.09	29.553	33.4	6.874
6.83	7.09	29.553	33.4	6.978
6.82	7.09	29.552	33.4	7.068
6.81	7.08	29.552	33.3	7.162
6.69	7.08	29.552	33.3	7.291

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80 Table S13 – P5 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
7.27	7.29	29.934	32.2	0.157
7.27	7.28	29.932	32.2	0.246
7.26	7.28	29.932	32.2	0.357
7.25	7.28	29.932	32.2	0.464
7.24	7.28	29.93	32.2	0.553

7.23	7.28	29.93	32.3	0.642
7.22	7.28	29.93	32.3	0.726
7.21	7.28	29.927	32.3	0.8
7.2	7.28	29.924	32.3	0.88
7.2	7.28	29.923	32.3	0.962
7.2	7.28	29.923	32.3	1.031
7.19	7.28	29.924	32.4	1.115
7.19	7.28	29.925	32.4	1.206
7.19	7.28	29.924	32.5	1.299
7.19	7.28	29.924	32.5	1.404
7.19	7.27	29.925	32.5	1.519
7.19	7.27	29.926	32.6	1.635
7.19	7.27	29.928	32.6	1.751
7.19	7.27	29.928	32.7	1.882
7.19	7.27	29.929	32.7	2.011
7.18	7.27	29.929	32.7	2.141
7.18	7.27	29.928	32.8	2.283
7.18	7.27	29.926	32.8	2.429
7.18	7.27	29.925	32.9	2.586
7.18	7.27	29.925	33	2.745
7.18	7.27	29.924	33	2.904
7.18	7.26	29.922	33.1	3.053
7.18	7.26	29.92	33.1	3.196
7.18	7.26	29.919	33.1	3.33
7.18	7.26	29.918	33.1	3.452
7.18	7.26	29.917	33.2	3.559
7.18	7.26	29.916	33.2	3.661
7.18	7.26	29.915	33.2	3.766
7.18	7.26	29.914	33.3	3.876
7.18	7.26	29.912	33.3	3.988
7.18	7.25	29.912	33.3	4.107
7.17	7.25	29.911	33.3	4.233
7.17	7.25	29.911	33.3	4.361
7.17	7.25	29.911	33.4	4.482
7.16	7.25	29.911	33.4	4.603
7.16	7.25	29.911	33.4	4.714
7.16	7.25	29.912	33.4	4.829
7.16	7.25	29.912	33.4	4.941
7.15	7.25	29.912	33.4	5.061
7.14	7.24	29.912	33.4	5.184
7.14	7.24	29.912	33.4	5.316
7.14	7.24	29.911	33.5	5.442
7.14	7.24	29.911	33.5	5.557
7.14	7.24	29.911	33.5	5.66
7.14	7.24	29.911	33.5	5.761

7.14	7.24	29.911	33.5	5.836
7.14	7.24	29.91	33.5	5.879
7.14	7.24	29.909	33.5	5.918
7.14	7.24	29.909	33.5	5.966
7.14	7.24	29.909	33.5	6.043
7.14	7.23	29.909	33.5	6.128
7.13	7.23	29.909	33.5	6.226
7.13	7.23	29.909	33.6	6.346
7.12	7.23	29.909	33.6	7.481
7.11	7.23	29.909	33.6	7.514
7.1	7.23	29.909	33.6	7.556
7.09	7.23	29.908	33.6	7.558
7.09	7.23	29.908	33.6	7.585
7.09	7.23	29.908	33.6	7.656
7.08	7.22	29.908	33.6	7.731
7.08	7.22	29.908	33.6	7.809
7.07	7.22	29.908	33.6	7.9
7.07	7.22	29.909	33.6	7.998

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82 Table S14 – P6 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.93	7.32	30.83	33.8	0.264
6.94	7.32	30.811	33.7	0.316
6.94	7.31	30.764	33.7	0.388
6.93	7.23	30.686	33.7	0.476
6.91	7.14	30.578	33.7	0.541
6.88	7.07	30.505	33.7	0.576
6.85	7.01	30.421	33.7	0.609
6.67	6.6	30.323	33.7	0.661
6.63	6.42	30.21	33.8	0.728
6.6	6.29	30.104	33.9	0.797
6.58	5.97	30.052	34	0.835
6.57	5.94	30.022	34.1	0.874
6.56	5.91	30.011	34.1	0.915
6.55	5.86	30.007	34.2	0.957
6.53	5.53	29.972	34.2	1.021
6.38	5.25	29.9	34.4	1.075
6.33	4.53	29.805	34.6	1.148
6.32	4.35	29.748	34.8	1.223
6.32	4.26	29.714	34.9	1.291
6.32	4.16	29.683	35	1.383
6.33	4.43	29.634	34.8	1.485

6.35	4.6	29.583	34.7	1.578
6.37	4.71	29.556	34.6	1.639
6.4	4.81	29.547	34.6	1.689
6.43	4.95	29.483	34.3	1.761
6.44	5.02	29.389	34.1	1.855
6.44	4.74	29.275	34.1	1.938
6.43	4.56	29.209	34.3	2.007
6.42	4.46	29.165	34.4	2.084
6.4	4.13	29.141	34.5	2.163
6.39	3.92	29.107	34.6	2.264
6.37	3.78	29.073	34.8	2.363
6.35	3.71	29.035	34.9	2.42
6.33	3.59	29.023	35	2.477
6.32	3.5	29.012	35.1	2.537
6.31	3.4	29	35.2	2.591
6.3	2.96	28.98	35.2	2.675
6.29	2.92	28.96	35.3	2.757
6.28	2.9	28.954	35.4	2.808
6.27	2.86	28.944	35.4	2.855
6.27	2.82	28.938	35.5	2.903
6.27	2.78	28.933	35.6	2.965
6.26	2.72	28.929	35.6	3.05
6.26	2.65	28.924	35.6	3.105
6.26	2.59	28.92	35.6	3.153
6.25	2.5	28.91	35.7	3.21
6.24	2.41	28.909	35.7	3.227
6.24	2.4	28.915	35.7	3.248
6.24	2.46	28.919	35.6	3.266

83

84 Table S15 – P7 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.91	6.95	29.479	32.6	0.316
6.91	6.94	29.479	32.6	0.456
6.91	6.94	29.487	32.6	0.598
6.91	6.95	29.522	32.5	0.735
6.92	6.96	29.525	32.5	0.871
6.92	6.95	29.499	32.5	1.004
6.92	6.94	29.478	32.5	1.132
6.92	6.95	29.541	32.5	1.246
6.93	7	29.666	32.4	1.346
6.95	7.07	29.749	32.3	1.454
6.98	7.12	29.778	32.3	1.578

7	7.13	29.742	32.4	1.723
7.01	7.13	29.73	32.4	1.855
7.01	7.12	29.682	32.5	1.978
7	7.08	29.608	32.5	2.106
6.98	7.03	29.538	32.6	2.245
6.96	6.98	29.519	32.7	3.119
6.95	6.97	29.515	32.7	3.214
6.94	6.96	29.513	32.7	3.308
6.94	6.95	29.513	32.7	3.413
6.94	6.95	29.516	32.8	3.504
6.94	6.95	29.514	32.8	3.588
6.94	6.95	29.509	32.9	3.669
6.93	6.94	29.501	32.9	3.745
6.93	6.94	29.494	32.9	3.819
6.93	6.93	29.485	33	3.962
6.93	6.92	29.484	33	4.109
6.93	6.92	29.489	33.1	4.253
6.93	6.92	29.496	33.1	4.395
6.93	6.93	29.504	33.1	4.533
6.93	6.93	29.506	33.2	4.686
6.93	6.93	29.501	33.2	4.842
6.92	6.93	29.503	33.2	5.791
6.92	6.93	29.511	33.2	5.896
6.92	6.93	29.513	33.3	5.905
6.92	6.93	29.509	33.3	5.923
6.92	6.93	29.499	33.3	5.962
6.92	6.92	29.488	33.4	6.016
6.91	6.91	29.479	33.4	6.102
6.91	6.9	29.477	33.4	7.035
6.9	6.9	29.471	33.5	7.176
6.9	6.89	29.463	33.5	7.263
6.9	6.88	29.46	33.5	7.343
6.9	6.88	29.464	33.5	7.417
6.9	6.89	29.474	33.5	7.492
6.9	6.89	29.484	33.6	7.572
6.91	6.9	29.496	33.6	7.656
6.91	6.91	29.517	33.6	7.766
6.92	6.93	29.541	33.6	8.693
6.92	6.94	29.554	33.6	8.874
6.93	6.94	29.553	33.6	9.041
6.93	6.94	29.545	33.6	9.229
6.93	6.94	29.541	33.6	9.409
6.93	6.93	29.538	33.7	10.304
6.93	6.93	29.537	33.7	10.524
6.92	6.93	29.538	33.7	10.648

6.92	6.93	29.534	33.7	10.753
6.92	6.92	29.524	33.7	10.858
6.91	6.91	29.513	33.7	10.971
6.91	6.9	29.499	33.7	11.079
6.9	6.89	29.482	33.8	11.899
6.89	6.87	29.471	33.8	12.004
6.89	6.86	29.458	33.8	12.133
6.88	6.85	29.455	33.8	12.223
6.88	6.85	29.462	33.8	12.324
6.88	6.86	29.47	33.8	12.403
6.88	6.86	29.474	33.8	12.483
6.88	6.86	29.477	33.8	12.566
6.88	6.86	29.483	33.8	12.654
6.88	6.87	29.493	33.8	12.81
6.88	6.87	29.504	33.8	12.963
6.88	6.88	29.51	33.8	13.114
6.88	6.88	29.511	33.8	14.017
6.89	6.88	29.514	33.8	14.163
6.89	6.88	29.519	33.8	14.229
6.89	6.89	29.519	33.8	14.346
6.89	6.88	29.513	33.8	14.502
6.89	6.88	29.504	33.8	15.504
6.88	6.87	29.492	33.9	15.612
6.88	6.86	29.484	33.9	15.668
6.87	6.85	29.481	33.9	15.74
6.87	6.85	29.486	33.9	15.821
6.87	6.85	29.483	33.9	15.908
6.86	6.85	29.476	33.9	16.01
6.86	6.84	29.474	33.9	16.103
6.85	6.84	29.477	33.9	16.965
6.85	6.84	29.475	33.9	17.125
6.85	6.84	29.472	33.9	17.24
6.84	6.84	29.473	33.9	17.346
6.84	6.83	29.473	33.9	17.48
6.83	6.84	29.478	33.9	18.401
6.83	6.84	29.486	33.9	18.702
6.82	6.84	29.492	33.9	18.833

85

86 Table S16 – P8 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.92	7.4	30.755	34.6	0.137
6.91	7.35	30.679	34.5	0.244

6.9	7.31	30.598	34.4	0.358
6.89	7.28	30.551	34.3	0.464
6.88	7.26	30.54	34.2	0.569
6.88	7.25	30.538	34.1	0.649
6.88	7.24	30.536	34	0.71
6.88	7.23	30.532	33.9	0.757
6.88	7.23	30.53	33.8	0.778
6.88	7.23	30.532	33.7	0.766
6.88	7.22	30.534	33.7	0.738
6.88	7.23	30.535	33.6	0.708

87

88 Table S17 – P9 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond μ S/cm	Depth m
6.74	0.46	29.982	36.4	0.114
6.72	0.45	29.871	36.1	0.154
6.7	0.45	29.801	36	0.185
6.69	0.45	29.783	35.9	0.188
6.68	0.45	29.829	35.8	0.183
6.68	0.44	29.923	35.8	0.178
6.69	0.44	30.029	35.7	0.197
6.69	0.43	30.046	35.6	0.226
6.69	0.43	29.971	35.5	0.266
6.69	0.43	29.883	35.5	0.315
6.69	0.43	29.858	35.4	0.37
6.68	0.43	29.882	35.4	0.436
6.68	0.43	29.909	35.3	0.514
6.68	0.43	29.928	35.3	0.587
6.68	0.42	29.909	35.2	0.653
6.67	0.42	29.813	35.1	0.723
6.67	0.42	29.684	35	0.794
6.66	0.42	29.579	34.9	0.864
6.65	0.43	29.513	34.8	0.938
6.64	0.43	29.477	34.8	1.004
6.64	0.42	29.462	34.7	1.067
6.64	0.42	29.463	34.7	1.124
6.63	0.42	29.465	34.6	1.163
6.63	0.42	29.468	34.6	1.186
6.62	0.42	29.469	34.5	1.205
6.62	0.42	29.468	34.5	1.227
6.62	0.42	29.463	34.5	1.246
6.62	0.42	29.455	34.5	1.262
6.62	0.41	29.449	34.4	1.272

6.63	0.41	29.448	34.4	1.285
6.63	0.41	29.449	34.4	1.313
6.63	0.41	29.448	34.4	1.348
6.63	0.41	29.447	34.4	1.372
6.63	0.41	29.447	34.3	1.396
6.62	0.41	29.446	34.3	1.423
6.62	0.41	29.443	34.3	1.453
6.62	0.41	29.442	34.3	1.49
6.62	0.4	29.445	34.3	1.532
6.62	0.4	29.445	34.3	1.58
6.62	0.4	29.439	34.3	1.641
6.62	0.4	29.43	34.3	1.708
6.62	0.4	29.422	34.3	1.777
6.62	0.4	29.415	34.3	1.858
6.62	0.4	29.41	34.2	1.938
6.62	0.4	29.404	34.2	2.025
6.61	0.4	29.395	34.2	2.116
6.61	0.4	29.389	34.2	2.209
6.61	0.4	29.388	34.2	2.302
6.61	0.4	29.386	34.2	2.398
6.61	0.4	29.384	34.2	2.494
6.61	0.4	29.379	34.2	2.594
6.61	0.4	29.376	34.2	2.69
6.61	0.4	29.371	34.2	2.79
6.6	0.4	29.365	34.2	2.899
6.6	0.4	29.364	34.2	3.008
6.6	0.41	29.365	34.2	3.126
6.6	0.41	29.367	34.2	3.239
6.6	0.41	29.368	34.1	3.354
6.6	0.41	29.368	34.1	3.472
6.6	0.41	29.368	34.1	3.588
6.6	0.41	29.369	34.1	3.698
6.6	0.41	29.369	34.1	3.797
6.6	0.41	29.368	34.1	3.887
6.6	0.41	29.368	34.1	3.979
6.6	0.41	29.367	34.1	4.082
6.6	0.41	29.366	34.1	4.183
6.6	0.41	29.365	34.1	4.286
6.6	0.41	29.364	34.1	4.393
6.59	0.41	29.363	34.1	4.51
6.59	0.41	29.362	34.1	4.62
6.59	0.41	29.362	34.2	4.731
6.59	0.41	29.361	34.2	4.827
6.59	0.41	29.36	34.2	4.906
6.59	0.41	29.36	34.2	4.973

6.59	0.41	29.359	34.2	5.026
6.59	0.41	29.357	34.2	5.056
6.59	0.41	29.357	34.2	5.076
6.59	0.41	29.356	34.2	5.096
6.59	0.41	29.356	34.2	5.12
6.59	0.4	29.355	34.2	5.161
6.59	0.41	29.347	34.2	5.258
6.58	0.41	29.339	34.2	5.366
6.58	0.41	29.333	34.2	5.49
6.57	0.41	29.331	34.2	5.625
6.57	0.41	29.329	34.2	5.774
6.57	0.41	29.329	34.2	5.923

89

90 Table S18 – P10 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.74	6.68	30.726	36.9	0.164
6.74	6.69	30.717	36.9	0.245
6.74	6.7	30.699	36.8	0.34
6.74	6.71	30.672	36.8	0.422
6.75	6.72	30.653	36.8	0.497
6.76	6.73	30.631	36.8	0.577
6.76	6.74	30.606	36.9	0.667
6.77	6.75	30.591	36.9	0.761
6.78	6.76	30.568	36.8	0.853
6.79	6.77	30.541	36.8	0.942
6.8	6.78	30.507	36.8	1.029
6.8	6.79	30.474	36.7	1.107
6.81	6.78	30.441	36.6	1.19
6.8	6.73	30.408	36.6	1.281
6.79	6.29	30.348	36.7	1.374
6.78	6.1	30.256	36.8	1.471
6.66	5.69	30.148	36.7	1.565
6.6	5.6	30.066	36.6	1.663
6.58	5.54	30.014	36.6	1.76
6.57	5.45	30	36.5	1.858
6.56	5.38	29.988	36.5	1.959
6.56	5.32	29.976	36.5	2.059
6.55	5.29	29.968	36.5	2.159
6.54	5.27	29.963	36.5	2.256
6.54	5.26	29.957	36.4	2.352
6.53	5.25	29.952	36.4	2.451
6.53	5.24	29.945	36.4	2.548

6.53	5.23	29.936	36.4	2.647
6.52	5.18	29.921	36.4	2.757
6.51	5.11	29.905	36.4	2.872
6.5	5.05	29.893	36.4	3.006
6.48	5	29.886	36.5	3.146
6.47	4.94	29.879	36.5	3.289
6.47	4.86	29.873	36.5	3.417
6.46	4.79	29.871	36.6	3.528
6.45	4.74	29.871	36.6	3.621
6.44	4.71	29.871	36.6	3.69
6.44	4.68	29.87	36.6	3.736
6.44	4.66	29.866	36.6	3.758
6.43	4.64	29.863	36.7	3.765
6.43	4.62	29.863	36.7	3.775
6.43	4.58	29.862	36.7	3.778
6.42	4.55	29.859	36.7	3.793
6.41	4.51	29.853	36.8	3.818
6.41	4.45	29.844	36.8	3.861
6.39	4.07	29.829	37	3.924
6.26	3.82	29.802	37.3	4.831

91

92 Table S19 – P11 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.79	6.81	29.955	32.7	1.063
6.8	6.77	29.945	32.7	1.248
6.81	6.76	29.945	32.8	1.334
6.83	6.75	29.947	32.9	1.462
6.84	6.75	29.944	33	1.592
6.85	6.74	29.938	33.1	1.699
6.86	6.74	29.939	33.1	1.787
6.88	6.74	29.945	33.2	1.862
6.88	6.74	29.949	33.2	2.718
6.89	6.74	29.95	33.3	2.816
6.89	6.74	29.949	33.3	2.865
6.9	6.73	29.95	33.4	2.933
6.9	6.73	29.95	33.4	3.019
6.9	6.74	29.952	33.5	3.096
6.9	6.74	29.955	33.5	3.178
6.91	6.73	29.957	33.5	3.256
6.91	6.73	29.955	33.6	4.092
6.91	6.73	29.955	33.6	4.161
6.91	6.73	29.95	33.6	4.252

6.91	6.73	29.942	33.6	4.341
6.91	6.72	29.934	33.6	4.423
6.91	6.72	29.935	33.7	4.508
6.91	6.72	29.938	33.7	4.592
6.92	6.72	29.939	33.7	5.364
6.92	6.72	29.936	33.7	5.467
6.92	6.72	29.932	33.7	5.517
6.92	6.72	29.932	33.8	5.578
6.92	6.72	29.934	33.8	5.669
6.91	6.73	29.936	33.8	5.769
6.91	6.73	29.935	33.8	5.861
6.91	6.73	29.934	33.8	5.939
6.91	6.73	29.931	33.8	6.011
6.92	6.73	29.929	33.8	6.169
6.92	6.73	29.928	33.8	6.325
6.92	6.73	29.928	33.8	6.471
6.92	6.73	29.928	33.8	6.587
6.92	6.73	29.928	33.9	6.693
6.91	6.73	29.927	33.9	6.799
6.91	6.73	29.929	33.8	6.92
6.92	6.73	29.93	33.9	7.041
6.92	6.73	29.931	33.9	7.153
6.92	6.74	29.932	33.9	7.267
6.92	6.74	29.932	33.9	7.39
6.92	6.74	29.931	33.9	7.536
6.91	6.74	29.93	33.9	8.263
6.91	6.74	29.931	33.9	8.431
6.91	6.74	29.933	33.9	8.58
6.91	6.74	29.934	33.9	8.697
6.92	6.74	29.934	33.9	8.815
6.92	6.74	29.932	33.9	8.922
6.92	6.74	29.929	33.9	9.034
6.92	6.74	29.925	33.9	9.92
6.92	6.74	29.925	33.9	9.999
6.92	6.74	29.925	33.9	10.004
6.91	6.74	29.926	33.9	9.96
6.91	6.74	29.927	33.9	10.078
6.91	6.74	29.927	33.9	10.918
6.92	6.74	29.928	33.9	11.088
6.92	6.74	29.927	33.9	11.335
6.92	6.74	29.926	33.8	11.414
6.91	6.74	29.925	33.8	11.512
6.91	6.74	29.925	33.9	11.602
6.91	6.74	29.925	33.9	11.709
6.91	6.74	29.925	33.9	12.506

6.91	6.73	29.926	33.8	12.738
6.91	6.73	29.925	33.8	12.784
6.91	6.74	29.925	33.8	12.891
6.91	6.74	29.924	33.8	13.004
6.91	6.73	29.924	33.8	13.112
6.91	6.73	29.924	33.8	13.216
6.91	6.73	29.925	33.8	14.001
6.91	6.73	29.926	33.8	14.137
6.91	6.73	29.926	33.8	14.259
6.91	6.73	29.926	33.8	14.39
6.9	6.73	29.926	33.8	14.458
6.9	6.73	29.925	33.8	15.245
6.89	6.73	29.924	33.8	15.463
6.89	6.73	29.923	33.8	15.606
6.88	6.72	29.923	33.8	15.74
6.87	6.72	29.923	33.8	15.932
6.85	6.72	29.924	33.8	16.843
6.83	6.72	29.924	33.8	17.246
6.73	6.72	29.924	33.8	17.329
6.72	6.71	29.924	33.8	17.501
6.72	6.71	29.924	33.8	18.764
6.71	6.71	29.924	33.8	19.109
6.71	6.71	29.924	33.8	19.325

93

94 Table S20 – P13 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.9	6.88	30.218	34.5	0.142
6.91	6.88	30.22	34.5	0.202
6.91	6.88	30.219	34.5	0.265
6.91	6.88	30.2	34.5	0.335
6.91	6.86	30.165	34.4	0.404
6.91	6.83	30.125	34.3	0.488
6.9	6.81	30.099	34.2	0.567
6.89	6.79	30.084	34.1	0.629
6.88	6.78	30.08	34	0.695
6.87	6.77	30.074	33.9	0.771
6.86	6.76	30.063	33.8	0.845
6.86	6.75	30.044	33.7	1.737
6.86	6.73	30.009	33.6	1.942
6.85	6.7	29.969	33.5	2.06
6.85	6.66	29.937	33.4	2.173
6.84	6.62	29.919	33.3	2.274

6.84	6.59	29.91	33.3	2.35
6.83	6.56	29.904	33.3	2.411
6.82	6.54	29.899	33.3	2.467
6.82	6.53	29.891	33.2	2.527
6.81	6.51	29.884	33.2	2.676
6.8	6.49	29.88	33.2	2.821
6.8	6.48	29.878	33.2	2.959
6.8	6.48	29.877	33.2	3.1
6.8	6.47	29.876	33.2	3.254
6.8	6.46	29.876	33.2	3.419
6.8	6.46	29.875	33.2	3.588
6.8	6.45	29.875	33.3	3.753
6.8	6.45	29.874	33.3	3.913
6.8	6.45	29.873	33.3	4.056
6.8	6.44	29.872	33.3	4.196
6.8	6.44	29.872	33.3	4.343
6.8	6.43	29.871	33.4	5.221
6.8	6.43	29.871	33.4	5.326
6.79	6.42	29.87	33.5	5.479
6.79	6.4	29.867	33.5	5.563
6.78	6.39	29.865	33.5	5.617
6.78	6.39	29.864	33.6	5.679
6.77	6.38	29.862	33.6	5.782
6.77	6.37	29.859	33.7	5.88
6.77	6.36	29.857	33.7	5.967
6.77	6.35	29.856	33.8	6.117
6.77	6.35	29.855	33.8	6.264

95

96 Table S21 – P12 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
7.02	7.03	30.424	34.5	0.317
7.01	7.03	30.419	34.4	0.467
7	7.03	30.393	34.5	0.631
6.99	7.03	30.358	34.5	0.809
6.98	7.02	30.335	34.4	0.953
6.97	7.02	30.328	34.4	1.063
6.96	7.01	30.318	34.4	1.169
6.96	7.01	30.291	34.4	1.257
6.96	7	30.251	34.5	1.341
6.95	6.97	30.21	34.4	1.43
6.94	6.94	30.168	34.4	1.522
6.93	6.9	30.123	34.5	1.613

6.92	6.86	30.081	34.5	1.709
6.9	6.82	30.051	34.5	1.807
6.89	6.77	30.021	34.5	1.899
6.87	6.71	29.988	34.5	1.994
6.86	6.65	29.96	34.5	2.086
6.85	6.61	29.949	34.6	2.176
6.84	6.58	29.94	34.6	2.267
6.83	6.56	29.932	34.7	2.358
6.83	6.54	29.924	34.7	2.45
6.82	6.52	29.918	34.7	2.546
6.82	6.5	29.904	34.8	2.65
6.81	6.46	29.889	34.8	2.761
6.81	6.41	29.874	34.8	2.873
6.8	6.37	29.867	34.9	2.99
6.79	6.34	29.861	34.9	3.098
6.78	6.32	29.86	34.9	3.195
6.77	6.31	29.856	35	3.309
6.76	6.29	29.849	35	3.448
6.76	6.26	29.841	35	3.585
6.75	6.23	29.834	35.1	4.462
6.74	6.2	29.827	35.1	4.713
6.74	6.17	29.822	35.1	4.77
6.73	6.14	29.819	35.2	4.856
6.73	6.12	29.817	35.2	4.938
6.72	6.11	29.814	35.2	5.014
6.72	6.09	29.811	35.3	5.099
6.72	6.07	29.81	35.3	5.182
6.72	6.06	29.81	35.3	5.25
6.72	6.05	29.81	35.3	5.357
6.71	6.04	29.808	35.3	5.474
6.71	6.03	29.806	35.3	5.583
6.71	6.01	29.803	35.4	5.665
6.7	5.99	29.8	35.4	5.729
6.7	5.97	29.795	35.4	5.778
6.69	5.93	29.788	35.4	5.83
6.68	5.86	29.778	35.5	5.885
6.66	5.75	29.769	35.6	5.951

97

98 Table S22 – P15 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
7.09	7.03	29.972	34.9	1.12
7.07	6.99	29.929	34.7	1.235

7.05	6.96	29.907	34.5	1.4
7.04	6.94	29.898	34.4	1.552
7.03	6.92	29.891	34.3	1.675
7.02	6.9	29.887	34.2	1.776
7	6.89	29.884	34.1	1.9
7	6.89	29.88	34	2.11
6.99	6.88	29.874	33.9	2.314
6.98	6.88	29.869	33.8	2.497
6.98	6.87	29.866	33.8	2.642
6.98	6.86	29.863	33.8	2.775
6.98	6.86	29.863	33.7	2.911
6.98	6.86	29.863	33.7	3.047
6.97	6.86	29.866	33.7	3.171
6.97	6.86	29.864	33.7	3.277
6.97	6.85	29.857	33.7	3.378
6.97	6.85	29.849	33.6	3.479
6.96	6.83	29.846	33.6	3.598
6.96	6.83	29.844	33.6	3.714
6.95	6.82	29.843	33.7	3.827
6.95	6.82	29.84	33.7	3.955
6.95	6.81	29.836	33.7	4.087
6.95	6.81	29.831	33.7	4.208
6.95	6.8	29.823	33.8	4.331
6.94	6.79	29.816	33.8	4.441
6.94	6.78	29.813	33.8	4.54
6.94	6.78	29.814	33.8	4.636
6.93	6.77	29.815	33.9	4.714
6.93	6.77	29.815	33.9	4.782
6.93	6.77	29.814	33.9	4.873
6.93	6.77	29.813	33.9	4.97
6.93	6.77	29.811	34	5.075
6.93	6.77	29.809	34	5.192
6.92	6.76	29.807	34	5.329
6.92	6.76	29.808	34.1	5.483
6.92	6.75	29.808	34.1	5.66
6.92	6.75	29.809	34.1	5.818
6.92	6.75	29.81	34.1	5.976
6.92	6.76	29.81	34.2	6.139
6.92	6.76	29.81	34.2	6.306
6.92	6.76	29.81	34.2	6.461
6.92	6.76	29.809	34.2	6.617
6.92	6.76	29.809	34.2	6.753
6.92	6.76	29.808	34.3	6.888
6.92	6.76	29.807	34.3	7.023
6.92	6.75	29.806	34.3	7.153

6.92	6.75	29.806	34.3	7.266
6.92	6.76	29.806	34.3	7.383
6.92	6.75	29.806	34.3	7.493
6.92	6.75	29.807	34.3	7.62
6.92	6.75	29.806	34.3	7.76
6.92	6.74	29.805	34.3	8.611
6.92	6.74	29.805	34.4	8.702
6.92	6.73	29.806	34.4	8.751
6.92	6.73	29.806	34.4	8.833
6.92	6.73	29.805	34.4	8.898
6.92	6.73	29.806	34.4	8.966
6.91	6.73	29.806	34.4	9.038
6.91	6.73	29.805	34.4	9.117
6.91	6.73	29.806	34.5	9.235
6.91	6.72	29.806	34.5	9.396
6.9	6.72	29.806	34.4	9.554
6.9	6.72	29.806	34.5	9.719
6.9	6.72	29.806	34.5	10.579
6.9	6.71	29.806	34.5	10.639
6.91	6.71	29.806	34.5	10.75
6.91	6.71	29.806	34.5	10.854
6.91	6.7	29.807	34.5	10.932
6.9	6.7	29.807	34.5	10.99

99

100 Table S23 – P14 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.84	6.67	29.657	33.1	0.448
6.85	6.67	29.657	33.1	0.51
6.85	6.67	29.656	33.1	0.568
6.85	6.67	29.656	33.1	0.602
6.85	6.67	29.657	33.1	0.632
6.85	6.67	29.656	33.1	0.66
6.84	6.67	29.656	33.1	0.672
6.84	6.67	29.655	33.2	0.687
6.84	6.67	29.655	33.2	0.713
6.85	6.67	29.655	33.2	0.749
6.85	6.67	29.654	33.2	0.788
6.85	6.67	29.654	33.3	0.853
6.84	6.67	29.653	33.3	0.929
6.84	6.67	29.654	33.3	0.997
6.84	6.67	29.654	33.3	1.056
6.84	6.67	29.654	33.4	1.109

6.84	6.67	29.654	33.4	1.157
6.84	6.67	29.653	33.4	1.189
6.84	6.67	29.654	33.5	1.22
6.84	6.67	29.653	33.5	1.229
6.83	6.67	29.653	33.6	1.227
6.83	6.67	29.654	33.6	1.236
6.83	6.67	29.654	33.7	1.264
6.83	6.67	29.654	33.7	1.325
6.83	6.67	29.655	33.7	1.378
6.83	6.67	29.655	33.8	1.433
6.83	6.67	29.655	33.8	1.481
6.83	6.67	29.655	33.9	1.543
6.83	6.67	29.655	33.9	1.617
6.83	6.67	29.656	33.9	1.696
6.83	6.67	29.656	34	1.771
6.83	6.67	29.657	34	1.842
6.83	6.67	29.657	34.1	1.918
6.83	6.67	29.657	34.1	2.002
6.83	6.67	29.656	34.1	2.861
6.83	6.67	29.656	34.2	2.924
6.83	6.66	29.656	34.2	2.922
6.83	6.66	29.655	34.2	2.852
6.83	6.66	29.655	34.3	2.777
6.83	6.66	29.654	34.3	2.729

101

102 Table S24 – P16 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.8	6.65	30.465	35.4	0.337
6.8	6.64	30.437	35.2	0.396
6.8	6.63	30.383	35	0.447
6.81	6.62	30.332	34.8	0.493
6.81	6.61	30.329	34.7	0.538
6.8	6.61	30.349	34.6	0.587
6.8	6.6	30.326	34.5	0.642
6.8	6.59	30.249	34.4	0.702
6.8	6.58	30.158	34.2	0.771
6.8	6.57	30.09	34.1	0.839
6.8	6.55	30.04	34	0.905
6.79	6.53	30.012	34	0.977
6.78	6.5	29.985	34	1.052
6.77	6.49	29.963	33.9	1.137
6.77	6.48	29.94	33.9	1.24

6.76	6.47	29.919	33.9	1.349
6.76	6.45	29.888	33.9	1.473
6.76	6.43	29.865	33.8	1.59
6.75	6.42	29.851	33.8	1.702
6.74	6.41	29.843	33.8	1.811
6.74	6.4	29.837	33.8	1.925
6.73	6.4	29.834	33.8	2.032
6.73	6.39	29.828	33.9	2.133
6.73	6.39	29.823	33.9	2.231
6.74	6.38	29.822	33.9	2.328
6.74	6.38	29.82	33.9	2.421
6.74	6.38	29.82	33.9	2.524
6.75	6.38	29.824	34	2.636
6.75	6.38	29.83	34	2.74
6.74	6.38	29.834	34	2.838
6.74	6.38	29.839	34	2.942
6.74	6.38	29.841	34	3.048
6.74	6.38	29.834	34.1	3.158
6.74	6.38	29.818	34.1	3.269
6.74	6.37	29.805	34.1	3.373
6.74	6.36	29.802	34.2	3.48
6.74	6.36	29.806	34.2	3.588
6.74	6.36	29.812	34.2	3.699
6.73	6.36	29.809	34.2	3.822
6.73	6.35	29.793	34.2	3.94
6.73	6.35	29.775	34.2	4.056
6.72	6.34	29.756	34.2	4.184
6.72	6.33	29.739	34.2	4.305
6.72	6.32	29.723	34.3	4.427
6.73	6.31	29.699	34.3	4.545
6.73	6.31	29.683	34.3	4.657
6.73	6.29	29.675	34.3	4.761
6.72	6.28	29.674	34.3	4.866
6.72	6.26	29.674	34.3	4.968
6.72	6.25	29.673	34.3	5.057
6.72	6.24	29.67	34.4	5.148
6.72	6.23	29.662	34.4	5.229
6.72	6.23	29.657	34.4	5.309
6.72	6.22	29.656	34.4	5.373
6.72	6.21	29.659	34.4	5.432
6.72	6.21	29.661	34.4	5.484
6.72	6.21	29.666	34.4	5.548
6.72	6.21	29.67	34.4	5.621
6.72	6.21	29.672	34.4	5.697
6.72	6.21	29.667	34.4	5.771

6.72	6.21	29.661	34.4	5.854
6.72	6.2	29.657	34.4	5.939
6.72	6.2	29.657	34.4	6.034
6.71	6.19	29.658	34.4	6.126
6.71	6.19	29.66	34.4	6.161
6.7	6.19	29.662	34.4	6.177
6.7	6.21	29.662	34.4	6.223
6.69	6.21	29.659	34.4	6.284
6.69	6.19	29.659	34.4	6.356
6.69	6.16	29.657	34.5	6.432
6.7	6.15	29.654	34.5	6.508
6.7	6.14	29.648	34.5	6.597
6.7	6.14	29.642	34.5	6.752
6.7	6.14	29.635	34.5	6.877
6.7	6.15	29.632	34.5	6.982
6.7	6.15	29.632	34.5	7.067
6.7	6.15	29.632	34.5	7.149
6.7	6.14	29.632	34.5	7.237
6.69	6.14	29.632	34.5	7.318
6.69	6.15	29.631	34.5	7.394
6.69	6.15	29.63	34.5	7.472
6.69	6.15	29.63	34.5	7.552
6.69	6.16	29.63	34.5	7.636
6.69	6.16	29.63	34.5	7.739
6.69	6.16	29.629	34.5	7.848
6.69	6.16	29.628	34.5	7.972
6.69	6.16	29.627	34.5	8.118
6.69	6.17	29.627	34.5	8.275
6.69	6.17	29.628	34.5	8.437
6.7	6.17	29.628	34.5	8.611
6.7	6.18	29.628	34.4	8.781
6.71	6.18	29.628	34.5	8.93
6.71	6.19	29.627	34.5	9.058
6.71	6.19	29.626	34.5	9.163
6.72	6.2	29.625	34.4	9.25
6.72	6.2	29.625	34.4	9.316
6.72	6.2	29.625	34.5	9.365
6.72	6.2	29.626	34.5	9.421
6.71	6.2	29.626	34.4	9.48
6.71	6.2	29.625	34.4	9.546
6.71	6.2	29.624	34.4	9.626
6.71	6.2	29.623	34.4	9.726
6.71	6.2	29.624	34.4	9.806
6.71	6.2	29.624	34.4	9.908
6.71	6.2	29.623	34.5	10.01

6.71	6.21	29.622	34.4	10.11
6.71	6.21	29.622	34.4	10.218
6.71	6.21	29.622	34.4	10.317
6.71	6.21	29.622	34.5	10.402
6.72	6.21	29.622	34.5	10.486
6.72	6.21	29.622	34.4	10.593
6.71	6.2	29.621	34.5	10.712
6.71	6.2	29.621	34.5	10.842
6.71	6.2	29.62	34.5	10.974
6.71	6.2	29.619	34.4	11.839
6.71	6.21	29.619	34.4	11.939
6.71	6.21	29.618	34.5	11.905
6.71	6.21	29.616	34.5	11.956
6.71	6.21	29.615	34.5	12.009
6.71	6.21	29.614	34.5	12.065
6.71	6.21	29.613	34.4	12.134
6.71	6.21	29.611	34.4	12.196
6.7	6.2	29.607	34.5	12.257
6.7	6.18	29.604	34.5	12.358
6.69	6.16	29.601	34.5	12.463
6.69	6.14	29.601	34.5	12.565
6.68	6.13	29.598	34.5	12.663
6.68	6.11	29.595	34.5	12.762
6.67	6.08	29.586	34.6	12.862
6.66	6.01	29.57	34.6	12.976
6.64	5.88	29.555	34.7	13.063
6.62	5.75	29.546	34.8	13.183
6.6	5.67	29.545	34.8	13.306
6.58	5.64	29.545	34.8	13.441
6.57	5.63	29.545	34.8	13.582
6.57	5.63	29.55	34.8	13.724
6.57	5.65	29.555	34.8	13.832
6.57	5.69	29.56	34.7	13.957
6.57	5.69	29.555	34.7	14.106
6.56	5.62	29.54	34.8	14.247
6.55	5.52	29.526	34.9	14.391
6.54	5.46	29.52	34.9	14.54
6.52	5.43	29.516	34.9	15.477
6.51	5.39	29.507	34.9	15.554
6.5	5.33	29.504	34.9	15.655
6.49	5.29	29.501	34.9	15.748
6.48	5.27	29.498	34.9	15.838
6.48	5.24	29.494	35	15.94
6.47	5.23	29.491	35	16.032
6.47	5.21	29.491	35	16.117

6.47	5.2	29.491	34.9	16.23
6.47	5.2	29.493	34.9	16.404
6.47	5.2	29.491	35	16.549
6.46	5.19	29.486	35	16.683
6.46	5.17	29.477	35	16.815
6.46	5.15	29.473	35	16.925
6.45	5.13	29.473	35	17.051
6.45	5.13	29.469	35	17.186
6.45	5.11	29.46	35.1	17.324
6.44	5.07	29.448	35	17.947
6.43	5.04	29.44	35	18.037
6.43	5.01	29.436	35	18.148
6.43	5	29.429	35.1	18.281
6.43	4.97	29.41	35.1	18.399
6.42	4.88	29.376	35.2	18.513
6.4	4.53	29.34	35.2	19.16

103

104 Table S25 – P17 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.94	7.09	30.432	36.6	0.215
6.94	6.99	30.047	36.3	0.345
6.92	6.91	29.839	36	0.496
6.89	6.85	29.729	35.9	0.626
6.86	6.71	29.696	35.8	0.759
6.83	6.63	29.672	35.7	0.893
6.8	6.55	29.647	35.6	1.049
6.78	6.5	29.624	35.5	1.21
6.76	6.45	29.607	35.4	1.362
6.75	6.41	29.593	35.4	1.506
6.74	6.38	29.584	35.3	1.65
6.74	6.36	29.577	35.2	1.798
6.73	6.35	29.57	35.2	1.969
6.73	6.33	29.564	35.2	2.109
6.72	6.31	29.56	35.1	2.23
6.72	6.3	29.557	35.1	2.341
6.71	6.28	29.553	35	2.438
6.7	6.27	29.548	35	2.534
6.7	6.25	29.545	35	2.632
6.7	6.24	29.542	34.9	2.725
6.7	6.22	29.539	34.9	2.803
6.7	6.21	29.536	34.9	2.894
6.69	6.2	29.533	34.8	2.995

6.69	6.19	29.531	34.8	3.094
6.69	6.18	29.529	34.8	3.197
6.69	6.17	29.527	34.8	3.292
6.69	6.16	29.525	34.7	3.38
6.69	6.16	29.522	34.7	3.47
6.69	6.14	29.503	34.7	3.561
6.68	6.1	29.486	34.7	3.645
6.68	6.05	29.464	34.7	3.729
6.67	5.99	29.444	34.7	3.816
6.66	5.94	29.431	34.7	3.9
6.66	5.89	29.42	34.7	3.988
6.65	5.86	29.415	34.7	4.086
6.65	5.84	29.423	34.7	4.184
6.64	5.83	29.434	34.7	4.287
6.64	5.83	29.427	34.7	4.389
6.63	5.8	29.412	34.7	4.489
6.62	5.76	29.403	34.7	4.584
6.61	5.74	29.397	34.7	4.678
6.61	5.72	29.389	34.7	4.765
6.61	5.7	29.384	34.7	4.846
6.61	5.69	29.384	34.7	4.927
6.61	5.69	29.386	34.7	5.002
6.61	5.69	29.388	34.6	5.081
6.62	5.69	29.386	34.7	5.156
6.62	5.69	29.382	34.6	5.229
6.62	5.69	29.378	34.6	5.304
6.62	5.68	29.377	34.6	5.384
6.62	5.67	29.375	34.6	5.464
6.61	5.67	29.375	34.6	5.545
6.61	5.66	29.373	34.6	5.626
6.61	5.66	29.373	34.6	5.706
6.61	5.66	29.372	34.6	5.788
6.61	5.65	29.372	34.6	5.871

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106 Table S26 – P18 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.7	6.26	29.64	34.2	0.978
6.68	6.21	29.581	34.1	0.966
6.68	6.16	29.534	34.1	0.967
6.67	6.14	29.527	34.1	0.964
6.66	6.12	29.515	34.1	1.084
6.65	6.08	29.49	34	1.196

6.64	6.01	29.454	34	2.034
6.63	5.94	29.426	33.9	2.033
6.61	5.89	29.41	33.8	2.139
6.61	5.86	29.41	33.8	2.29
6.6	5.86	29.414	33.7	2.361
6.6	5.85	29.415	33.6	2.425
6.6	5.85	29.413	33.5	2.531
6.6	5.84	29.41	33.4	2.607
6.6	5.84	29.408	33.4	3.492
6.6	5.83	29.406	33.3	3.612
6.6	5.82	29.407	33.2	3.612
6.6	5.81	29.409	33.1	3.611
6.59	5.81	29.409	33.1	3.767
6.59	5.8	29.406	33.1	3.862
6.6	5.8	29.401	33.1	3.921
6.6	5.79	29.401	33	3.983
6.59	5.79	29.402	33	4.071
6.6	5.79	29.404	33	4.197
6.6	5.79	29.406	33	4.333
6.59	5.79	29.408	33	5.268
6.59	5.78	29.409	32.9	5.263
6.6	5.78	29.41	32.9	5.264
6.6	5.78	29.409	33	5.325
6.6	5.78	29.409	32.9	5.43
6.6	5.78	29.412	32.9	5.486
6.6	5.79	29.423	33	5.521
6.6	5.79	29.435	33	5.594
6.6	5.79	29.442	33	5.706
6.61	5.8	29.445	33	5.838
6.61	5.8	29.446	33.1	5.975
6.6	5.8	29.447	33.1	6.098
6.6	5.8	29.448	33.1	6.227
6.6	5.81	29.45	33.1	6.357
6.6	5.81	29.448	33.2	7.172
6.59	5.8	29.441	33.2	7.171
6.58	5.8	29.422	33.2	7.165
6.58	5.78	29.399	33.2	7.18
6.56	5.75	29.367	33.3	7.329
6.54	5.7	29.341	33.3	7.418
6.52	5.66	29.329	33.3	7.475
6.49	5.64	29.326	33.4	8.308
6.48	5.63	29.323	33.4	8.301
6.47	5.62	29.323	33.4	8.303
6.46	5.61	29.322	33.5	8.408
6.45	5.6	29.321	33.5	8.524

6.45	5.6	29.32	33.5	8.593
6.45	5.59	29.32	33.6	9.39
6.44	5.59	29.319	33.6	9.396
6.43	5.58	29.317	33.7	9.396
6.42	5.58	29.316	33.7	9.4
6.41	5.57	29.315	33.8	9.472
6.4	5.57	29.314	33.8	9.584
6.39	5.56	29.313	33.8	9.653
6.38	5.56	29.312	33.8	9.702
6.37	5.56	29.312	33.9	9.752
6.36	5.56	29.312	33.9	9.884
6.36	5.56	29.312	33.9	9.999
6.36	5.55	29.312	33.9	10.143
6.35	5.55	29.312	33.9	10.89
6.34	5.55	29.311	34	10.899
6.34	5.55	29.31	34	10.893
6.33	5.55	29.31	34	10.891
6.33	5.54	29.309	34	10.918
6.33	5.54	29.309	34	11.016
6.32	5.54	29.308	34	11.081
6.32	5.54	29.308	34.1	11.128
6.32	5.53	29.307	34.1	11.174
6.32	5.53	29.304	34.1	12.023
6.31	5.52	29.3	34.1	12.019
6.29	5.51	29.297	34.2	12.018
6.28	5.5	29.296	34.2	12.016
6.27	5.49	29.296	34.2	12.014
6.28	5.49	29.298	34.2	12.013
6.29	5.49	29.298	34.2	12.011
6.29	5.49	29.293	34.2	12.072
6.28	5.48	29.289	34.2	12.141
6.26	5.47	29.286	34.2	12.216
6.24	5.47	29.288	34.3	12.296
6.23	5.47	29.287	34.3	12.373
6.24	5.46	29.284	34.3	12.47
6.23	5.45	29.281	34.2	12.611
6.22	5.44	29.277	34.2	12.735
6.22	5.43	29.277	34.3	12.8
6.21	5.43	29.277	34.3	12.865
6.22	5.42	29.278	34.3	12.927
6.23	5.42	29.279	34.3	13.038
6.22	5.42	29.28	34.3	13.176
6.22	5.43	29.281	34.3	13.265
6.22	5.43	29.281	34.3	13.341
6.22	5.43	29.28	34.3	13.418

6.23	5.42	29.279	34.3	13.498
6.25	5.42	29.278	34.3	13.576
6.26	5.42	29.277	34.3	13.702
6.25	5.41	29.278	34.3	13.79
6.24	5.41	29.279	34.3	13.878
6.23	5.41	29.28	34.3	13.968
6.23	5.42	29.281	34.3	14.054
6.24	5.42	29.281	34.3	14.14
6.26	5.42	29.28	34.3	14.226
6.27	5.42	29.279	34.3	14.311
6.27	5.41	29.278	34.3	14.386
6.26	5.41	29.277	34.3	14.463
6.25	5.4	29.275	34.3	14.538
6.23	5.4	29.271	34.3	15.477
6.22	5.39	29.269	34.3	15.475
6.22	5.38	29.268	34.3	15.476
6.22	5.37	29.267	34.3	15.478
6.23	5.37	29.267	34.3	15.482
6.24	5.36	29.267	34.3	15.486
6.26	5.36	29.267	34.3	15.501
6.26	5.36	29.269	34.3	15.584
6.26	5.37	29.27	34.3	15.682
6.26	5.37	29.271	34.3	15.787
6.25	5.38	29.27	34.3	16.864
6.24	5.37	29.268	34.3	16.896
6.24	5.36	29.267	34.3	16.899
6.25	5.36	29.266	34.3	16.899
6.24	5.36	29.264	34.4	16.999
6.23	5.35	29.261	34.3	17.143
6.23	5.34	29.26	34.3	17.236
6.22	5.33	29.259	34.3	18.29
6.21	5.33	29.26	34.3	18.433
6.2	5.32	29.26	34.3	18.433
6.21	5.32	29.261	34.3	18.434
6.2	5.32	29.261	34.3	18.539
6.2	5.32	29.26	34.3	18.685
6.2	5.32	29.255	34.3	18.775
6.2	5.31	29.251	34.4	18.831
6.2	5.3	29.247	34.4	18.871
6.2	5.29	29.247	34.3	20.133
6.2	5.28	29.246	34.3	20.136
6.19	5.27	29.244	34.3	20.148
6.19	5.27	29.245	34.4	20.159
6.18	5.27	29.244	34.4	21.108
6.17	5.26	29.236	34.3	21.121

6.17	5.24	29.226	34.3	21.126
6.16	5.22	29.223	34.4	21.159
6.15	5.22	29.229	34.4	21.352
6.15	5.22	29.236	34.3	21.465
6.15	5.22	29.241	34.3	21.535
6.16	5.23	29.243	34.4	21.584
6.17	5.23	29.243	34.4	21.626
6.18	5.23	29.243	34.4	22.544
6.18	5.24	29.242	34.4	22.276
6.19	5.24	29.241	34.3	22.274
6.18	5.24	29.241	34.3	22.43
6.17	5.24	29.237	34.3	22.557
6.17	5.23	29.235	34.3	22.626
6.17	5.23	29.235	34.3	22.683
6.16	5.22	29.235	34.3	23.534
6.16	5.22	29.231	34.3	23.52
6.16	5.21	29.228	34.3	23.52
6.16	5.21	29.226	34.3	23.521
6.16	5.2	29.223	34.4	23.525
6.18	5.19	29.221	34.4	23.531
6.19	5.19	29.22	34.4	23.534
6.2	5.18	29.219	34.3	24.404
6.19	5.18	29.215	34.3	24.386
6.18	5.17	29.208	34.3	24.399
6.17	5.15	29.202	34.3	24.399
6.16	5.14	29.193	34.3	24.435
6.15	5.09	29.173	34.3	24.571
6.14	5.04	29.153	34.3	24.651
6.14	4.99	29.152	34.3	24.704
6.14	4.97	29.159	34.3	24.742
6.15	4.97	29.168	34.3	24.818
6.15	4.98	29.167	34.3	25.583
6.15	4.99	29.16	34.3	25.592
6.15	4.98	29.153	34.3	25.591
6.14	4.97	29.153	34.3	25.591
6.13	4.97	29.154	34.3	25.678
6.13	4.97	29.156	34.3	25.791
6.13	4.97	29.157	34.3	25.866
6.13	4.97	29.157	34.3	26.841
6.11	4.97	29.155	34.3	26.87
6.11	4.97	29.153	34.3	26.877
6.11	4.96	29.152	34.3	26.879
6.1	4.96	29.145	34.3	27.007
6.09	4.94	29.134	34.3	27.124
6.09	4.91	29.126	34.2	27.193

6.1	4.89	29.129	34.2	27.242
6.11	4.88	29.138	34.2	27.279
6.11	4.89	29.139	34.2	28.141
6.11	4.9	29.133	34.2	28.143
6.12	4.89	29.129	34.2	28.142
6.11	4.88	29.129	34.2	28.269
6.11	4.87	29.128	34.2	28.402
6.11	4.87	29.128	34.2	28.479
6.1	4.87	29.127	34.2	29.464
6.1	4.86	29.126	34.2	29.465
6.1	4.86	29.125	34.2	29.458
6.11	4.86	29.126	34.2	29.457
6.1	4.86	29.126	34.2	29.606
6.11	4.86	29.126	34.2	29.696
6.12	4.86	29.127	34.2	30.576
6.11	4.86	29.127	34.2	30.67
6.1	4.86	29.126	34.2	30.666
6.11	4.86	29.126	34.2	30.678
6.1	4.85	29.124	34.2	30.868
6.1	4.85	29.125	34.2	30.97
6.11	4.85	29.126	34.2	31.035
6.1	4.85	29.128	34.2	31.929
6.1	4.86	29.129	34.2	31.922
6.11	4.86	29.131	34.2	31.907
6.11	4.87	29.132	34.2	31.968
6.11	4.87	29.133	34.2	32.097
6.12	4.87	29.133	34.2	32.175
6.13	4.87	29.134	34.2	32.223
6.13	4.88	29.135	34.2	33.223
6.13	4.88	29.135	34.2	33.251
6.13	4.88	29.134	34.2	33.254
6.13	4.87	29.129	34.2	33.253
6.13	4.85	29.122	34.2	33.256
6.14	4.84	29.119	34.2	33.262
6.15	4.83	29.123	34.2	33.269
6.15	4.84	29.129	34.2	34.022
6.15	4.85	29.133	34.2	34.034
6.15	4.87	29.134	34.2	34.045
6.15	4.87	29.133	34.2	34.094
6.14	4.86	29.129	34.2	34.263
6.14	4.85	29.125	34.2	34.373
6.14	4.84	29.124	34.2	34.448
6.14	4.83	29.123	34.2	35.556
6.13	4.83	29.12	34.2	35.61
6.13	4.82	29.115	34.2	35.606

6.14	4.8	29.113	34.2	35.607
6.14	4.8	29.114	34.2	35.611
6.14	4.8	29.116	34.2	36.535
6.14	4.8	29.118	34.2	36.541
6.14	4.8	29.118	34.2	36.555
6.14	4.8	29.117	34.2	36.564
6.14	4.8	29.118	34.2	37.415
6.14	4.81	29.119	34.2	37.423
6.14	4.81	29.122	34.2	37.425
6.15	4.81	29.122	34.2	37.457
6.14	4.81	29.12	34.2	38.396
6.14	4.81	29.117	34.2	38.392
6.15	4.8	29.115	34.2	38.395
6.14	4.79	29.114	34.2	39.22
6.14	4.78	29.112	34.2	39.212
6.14	4.78	29.112	34.2	39.216
6.13	4.78	29.112	34.2	40.042
6.12	4.77	29.113	34.2	40.043
6.13	4.77	29.113	34.2	40.045
6.13	4.78	29.114	34.2	40.048
6.13	4.78	29.114	34.2	40.836
6.13	4.78	29.114	34.2	40.841
6.14	4.78	29.114	34.2	40.842
6.14	4.78	29.114	34.2	40.845
6.15	4.78	29.114	34.2	40.848
6.17	4.78	29.114	34.2	40.851
6.17	4.78	29.113	34.2	41.627
6.17	4.77	29.113	34.2	41.635
6.17	4.77	29.113	34.2	41.632
6.17	4.77	29.113	34.2	42.365
6.16	4.77	29.112	34.2	42.365
6.16	4.77	29.111	34.2	42.363
6.15	4.76	29.11	34.2	43.138
6.14	4.76	29.11	34.2	43.129
6.14	4.76	29.111	34.2	43.119
6.14	4.76	29.112	34.2	43.109
6.14	4.76	29.112	34.2	43.835
6.15	4.76	29.112	34.2	43.826
6.15	4.76	29.112	34.2	43.817
6.16	4.76	29.112	34.2	43.814
6.15	4.76	29.109	34.2	44.56
6.15	4.75	29.106	34.2	44.544
6.15	4.75	29.105	34.2	44.545
6.14	4.74	29.105	34.2	45.354
6.14	4.74	29.105	34.2	45.403

6.14	4.74	29.104	34.2	45.409
6.13	4.74	29.103	34.2	45.453
6.12	4.73	29.099	34.2	45.609
6.13	4.72	29.097	34.2	45.696
6.13	4.72	29.096	34.2	46.471
6.13	4.71	29.096	34.2	46.486
6.13	4.71	29.096	34.2	46.483
6.13	4.71	29.096	34.2	46.487
6.13	4.71	29.096	34.2	46.623
6.14	4.71	29.096	34.2	46.699
6.14	4.71	29.096	34.2	46.746
6.14	4.71	29.096	34.2	46.85
6.14	4.7	29.096	34.2	46.932
6.15	4.7	29.096	34.2	47.055
6.15	4.7	29.096	34.2	47.17
6.15	4.7	29.096	34.2	47.979
6.16	4.7	29.095	34.2	47.981
6.16	4.7	29.096	34.2	48.07
6.16	4.7	29.096	34.2	48.261
6.16	4.7	29.096	34.2	48.357
6.16	4.7	29.097	34.2	48.414
6.15	4.7	29.096	34.2	49.271
6.16	4.7	29.096	34.2	49.255
6.16	4.7	29.096	34.2	49.241
6.16	4.7	29.096	34.2	49.385
6.16	4.7	29.096	34.2	49.518
6.17	4.7	29.095	34.2	49.584
6.17	4.7	29.095	34.2	50.497
6.17	4.69	29.095	34.2	50.478
6.17	4.69	29.094	34.2	50.479
6.17	4.69	29.094	34.2	50.607
6.16	4.69	29.093	34.2	50.745
6.16	4.68	29.093	34.1	50.818
6.16	4.68	29.093	34.2	50.872
6.16	4.68	29.094	34.2	51.757
6.16	4.67	29.093	34.2	51.77
6.16	4.67	29.092	34.2	51.802
6.16	4.66	29.092	34.2	51.821
6.17	4.66	29.092	34.2	51.831
6.18	4.66	29.093	34.2	51.838
6.18	4.66	29.093	34.2	52.623
6.18	4.66	29.092	34.2	52.573
6.19	4.66	29.092	34.2	52.578
6.19	4.66	29.092	34.2	52.58
6.19	4.66	29.092	34.2	52.581

6.2	4.66	29.092	34.2	52.585
6.2	4.66	29.093	34.2	52.591
6.21	4.66	29.092	34.2	52.598
6.21	4.66	29.092	34.2	52.606
6.22	4.66	29.092	34.2	52.617
6.22	4.65	29.092	34.2	52.629
6.23	4.65	29.092	34.2	52.64
6.23	4.65	29.093	34.2	52.652
6.24	4.65	29.093	34.2	52.664
6.24	4.65	29.093	34.2	52.675
6.25	4.66	29.092	34.2	52.686
6.25	4.66	29.093	34.2	52.694
6.25	4.66	29.093	34.2	52.7
6.26	4.66	29.093	34.2	52.706
6.26	4.66	29.093	34.2	52.713
6.26	4.66	29.093	34.2	52.717
6.26	4.66	29.093	34.2	52.718
6.26	4.66	29.093	34.1	52.716
6.27	4.66	29.092	34.1	52.715
6.27	4.66	29.092	34.2	53.507
6.26	4.65	29.092	34.2	53.535
6.26	4.65	29.092	34.2	53.547
6.26	4.65	29.091	34.2	53.691
6.25	4.65	29.089	34.2	53.833
6.25	4.64	29.087	34.2	53.91
6.25	4.63	29.087	34.2	53.959
6.24	4.61	29.085	34.2	54.75
6.24	4.59	29.083	34.2	54.752
6.24	4.57	29.08	34.2	54.76
6.23	4.56	29.079	34.2	54.82
6.22	4.54	29.078	34.2	55.759
6.22	4.52	29.076	34.2	55.795
6.22	4.51	29.075	34.2	55.794
6.22	4.5	29.075	34.2	55.889
6.21	4.48	29.073	34.3	56.027
6.21	4.46	29.072	34.3	56.108
6.21	4.44	29.072	34.3	56.932
6.2	4.42	29.072	34.3	56.951
6.2	4.4	29.071	34.3	56.955
6.19	4.39	29.071	34.3	57.007
6.19	4.38	29.07	34.4	57.163
6.19	4.37	29.069	34.4	57.264
6.19	4.33	29.068	34.6	57.335
6.2	4.25	29.068	34.7	57.295
6.22	4.22	29.069	34.7	57.338

6.23	4.26	29.07	34.6	57.438
6.25	4.29	29.069	34.6	57.534
6.25	4.29	29.069	35	57.585
6.35	4.24	29.068	36.6	57.611
6.38	3.89	29.067	39.8	57.626
6.39	3.66	29.068	44.4	57.684
6.41	3.54	29.069	47.8	57.742
6.41	3.59	29.071	48.4	57.744
6.42	3.65	29.074	47	57.743
6.42	3.77	29.077	45.2	57.743
6.41	3.73	29.075	43.5	57.735
6.41	3.63	29.074	42.4	57.709
6.52	3.54	29.071	42.2	57.68
6.59	2.31	29.068	43.5	57.67
6.58	1.32	29.065	46.7	57.664
6.58	1.08	29.063	50.7	57.654
6.59	1.55	29.066	50.7	57.642
6.59	1.04	29.07	50.7	57.648
6.58	0.76	29.07	52.4	57.659
6.57	0.66	29.069	55.7	57.673
6.55	0.59	29.068	57.7	57.689
6.52	0.49	29.065	61.4	57.69
6.5	0.42	29.064	63.7	57.69
6.49	0.71	29.067	60.6	57.691
6.58	1.12	29.077	58.2	57.697
6.53	0.57	29.082	59.6	57.699
6.52	0.46	29.082	64.9	57.703
6.51	0.41	29.079	66.7	57.702
6.5	0.36	29.079	65.5	57.692
6.49	0.32	29.082	63.5	57.687
6.48	0.3	29.085	64	57.698
6.47	0.28	29.086	66.2	57.709
6.46	0.72	29.085	67.7	57.703
6.77	0.8	29.08	69.7	57.695
6.84	1.44	29.074	66.2	57.683
6.72	2.38	29.068	56.5	57.665
6.7	2.06	29.067	44.3	57.668
6.72	2.41	29.066	44	57.666
6.72	2.67	29.065	43.8	57.694
6.72	3.44	29.067	40	57.711
6.72	3.64	29.068	37.4	57.75
6.61	3.69	29.067	38.2	57.833
6.58	3.69	29.066	40.5	57.924

108 Table S27 – P19 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
6.52	5.2	29.431	34.5	0.344
6.52	5.2	29.432	34.5	0.388
6.52	5.19	29.43	34.4	0.43
6.52	5.19	29.428	34.3	0.494
6.51	5.19	29.429	34.2	0.548
6.51	5.18	29.43	34.2	0.619
6.51	5.18	29.432	34.1	0.677
6.51	5.18	29.44	34	0.752
6.51	5.18	29.45	33.9	0.837
6.51	5.19	29.459	33.8	0.914
6.51	5.19	29.458	33.7	0.982
6.51	5.19	29.458	33.7	1.045
6.51	5.19	29.458	33.7	1.106
6.51	5.19	29.459	33.6	1.171
6.51	5.18	29.457	33.6	1.246
6.51	5.18	29.457	33.5	1.322
6.51	5.18	29.452	33.5	1.39
6.51	5.18	29.446	33.5	1.475
6.51	5.18	29.437	33.5	1.575
6.5	5.18	29.434	33.5	1.659
6.5	5.18	29.432	33.4	1.755
6.49	5.17	29.432	33.4	1.832
6.5	5.17	29.433	33.4	1.923
6.5	5.17	29.437	33.4	2.004
6.5	5.17	29.44	33.5	2.08
6.5	5.17	29.44	33.5	2.147
6.5	5.17	29.435	33.5	2.222
6.5	5.17	29.43	33.5	2.289
6.51	5.17	29.428	33.5	2.352
6.51	5.17	29.432	33.5	2.433
6.51	5.17	29.433	33.6	2.507
6.5	5.17	29.429	33.6	2.589
6.5	5.17	29.42	33.6	2.682
6.49	5.17	29.414	33.6	2.778
6.49	5.16	29.412	33.7	2.873
6.49	5.16	29.414	33.7	2.961
6.5	5.16	29.415	33.7	3.042
6.5	5.16	29.415	33.8	3.12
6.51	5.16	29.417	33.8	3.201
6.51	5.16	29.419	33.8	3.293
6.5	5.16	29.417	33.9	3.408
6.5	5.16	29.414	33.9	4.269

6.49	5.16	29.412	33.9	4.424
6.49	5.16	29.412	34	4.503
6.48	5.16	29.412	34	4.588
6.48	5.16	29.412	34	4.659
6.48	5.16	29.412	34.1	4.782
6.48	5.16	29.413	34.1	4.867
6.47	5.16	29.414	34.1	4.974
6.47	5.16	29.415	34.2	5.062
6.48	5.16	29.415	34.2	5.232
6.48	5.16	29.415	34.2	5.397
6.48	5.16	29.415	34.2	5.561
6.48	5.16	29.415	34.3	5.703
6.48	5.16	29.414	34.3	5.836
6.48	5.16	29.412	34.3	5.969
6.48	5.15	29.413	34.3	6.107
6.48	5.15	29.413	34.4	6.233
6.48	5.15	29.414	34.4	7.064
6.49	5.15	29.414	34.4	7.166
6.49	5.15	29.414	34.4	7.266
6.49	5.15	29.414	34.4	7.353
6.5	5.15	29.414	34.4	7.454
6.5	5.15	29.413	34.5	7.516
6.49	5.15	29.412	34.5	7.601
6.49	5.15	29.413	34.5	8.45
6.48	5.14	29.413	34.5	8.558
6.48	5.14	29.413	34.5	8.638
6.48	5.14	29.412	34.5	8.777
6.48	5.14	29.411	34.6	8.901
6.49	5.14	29.412	34.6	9.042
6.49	5.14	29.412	34.6	9.893

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110 Table S28 – P20 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond µS/cm	Depth m
7.01	7.98	30.036	37.5	0.433
7.03	7.98	30.034	37.5	0.523
7.04	7.98	30.033	37.6	0.617
7.05	7.98	30.032	37.6	0.719
7.06	7.98	30.032	37.6	0.822
7.07	7.98	30.032	37.6	0.92
7.07	7.99	30.033	37.6	1.012
7.08	7.99	30.033	37.6	1.098
7.08	7.99	30.034	37.5	1.185

7.08	8	30.034	37.5	1.279
7.09	8	30.036	37.5	1.378
7.09	8	30.037	37.4	1.469
7.09	8	30.035	37.3	1.56
7.09	8	30.029	37.2	1.653
7.09	8	30.027	37.2	1.743
7.09	8	30.026	37.1	1.832
7.09	8	30.026	37	1.919
7.09	8	30.026	36.9	1.986
7.09	8	30.027	36.9	2.039
7.09	8	30.028	36.8	2.101
7.09	8	30.027	36.8	2.162
7.09	8.01	30.025	36.8	2.236
7.09	8.01	30.024	36.7	2.332
7.09	8	30.024	36.7	2.415
7.09	8	30.024	36.7	2.508
7.09	8	30.023	36.7	2.63
7.09	8	30.023	36.7	2.767
7.09	8	30.023	36.7	2.921
7.09	8.01	30.023	36.7	3.77
7.09	8.01	30.023	36.7	3.916
7.09	8	30.023	36.7	3.944
7.09	8	30.024	36.7	4.001
7.08	8.01	30.025	36.7	4.045
7.08	8.01	30.027	36.8	4.086
7.08	8.01	30.03	36.8	4.137
7.08	8.01	30.033	36.8	4.189
7.08	8.02	30.034	36.8	4.241
7.09	8.02	30.033	36.9	4.345
7.09	8.02	30.031	36.9	4.443
7.09	8.01	30.031	36.9	4.539
7.09	8.01	30.03	37	4.635
7.09	8.01	30.029	37	4.722
7.09	8.01	30.026	37	4.803
7.09	8.01	30.025	37.1	4.891
7.09	8.01	30.024	37.1	4.966
7.08	8.02	30.024	37.2	5.054
7.08	8.02	30.025	37.2	5.145
7.08	8.01	30.026	37.3	5.272
7.08	8.01	30.026	37.3	6.297
7.08	8.02	30.025	37.3	6.392
7.08	8.02	30.027	37.4	6.333
7.09	8.02	30.029	37.4	6.317
7.09	8.02	30.028	37.5	6.318
7.09	8.02	30.025	37.5	6.33

7.09	8.02	30.024	37.5	6.354
7.09	8.02	30.023	37.6	6.382
7.1	8.02	30.025	37.6	6.415
7.1	8.02	30.025	37.7	6.457
7.09	8.02	30.025	37.7	6.494
7.09	8.02	30.025	37.7	6.51
7.1	8.02	30.026	37.7	6.509
7.1	8.02	30.027	37.8	6.498
7.1	8.03	30.025	37.8	6.523
7.1	8.02	30.023	37.8	6.594
7.09	8.02	30.021	37.9	6.68
7.09	8.02	30.022	37.9	7.487
7.09	8.02	30.023	37.9	7.491
7.09	8.02	30.022	37.9	7.581
7.09	8.02	30.021	37.9	7.714
7.09	8.02	30.02	38	7.822
7.1	8.01	30.02	38	7.893
7.1	8.01	30.02	38	7.947
7.1	8.01	30.02	38	8.004
7.1	8.01	30.02	38	8.129
7.1	8.01	30.02	38.1	8.274
7.1	8.01	30.02	38.1	8.382
7.1	8.01	30.021	38.1	8.461
7.09	8.01	30.021	38.1	8.552
7.08	8.01	30.019	38.1	8.656
7.07	8	30.016	38.1	8.777
7.06	8	30.015	38.1	8.895
7.05	8	30.014	38.1	9
7.05	8	30.013	38.1	9.11
7.05	8	30.012	38.1	9.233
7.06	8	30.011	38.1	9.369
7.07	7.99	30.012	38.1	9.496
7.07	7.99	30.011	38.1	9.632
7.06	7.99	30.011	38.2	9.753
7.05	7.99	30.012	38.2	9.872
7.04	8	30.014	38.2	10.008
7.03	8	30.015	38.2	10.144
7.02	8	30.014	38.2	10.268
7.01	8	30.014	38.2	10.383
7	7.99	30.014	38.2	10.487
6.99	7.99	30.013	38.2	10.595
6.97	7.99	30.014	38.2	10.717
6.95	7.99	30.016	38.2	10.86
6.93	7.99	30.018	38.2	11.676
6.92	7.99	30.018	38.2	11.754

6.91	7.99	30.017	38.2	11.815
6.89	7.99	30.016	38.2	11.846
6.88	7.99	30.017	38.2	11.916
6.86	7.99	30.017	38.2	11.989
6.84	7.99	30.017	38.2	12.069
6.82	7.98	30.016	38.2	12.137
6.81	7.98	30.016	38.2	12.246
6.79	7.98	30.015	38.2	12.365
6.78	7.98	30.014	38.2	12.501
6.76	7.98	30.014	38.2	12.646
6.75	7.98	30.015	38.2	12.788
6.73	7.98	30.015	38.2	12.929
6.71	7.98	30.014	38.2	13.05
6.7	7.98	30.012	38.2	13.18
6.68	7.97	30.011	38.2	13.308
6.67	7.97	30.012	38.2	13.428
6.66	7.97	30.011	38.3	13.54
6.66	7.97	30.012	38.3	13.646
6.66	7.97	30.012	38.2	13.75
6.67	7.96	30.012	38.2	13.851
6.67	7.96	30.013	38.2	13.953
6.66	7.96	30.014	38.3	14.049
6.66	7.96	30.014	38.3	14.726
6.65	7.96	30.013	38.3	14.87
6.63	7.97	30.013	38.3	14.991
6.61	7.97	30.012	38.3	15.089
6.6	7.97	30.012	38.3	15.178
6.58	7.97	30.01	38.3	15.24
6.56	7.97	30.01	38.3	15.331
6.54	7.97	30.01	38.3	15.418
6.53	7.97	30.012	38.3	15.528
6.52	7.97	30.014	38.3	15.691
6.51	7.97	30.015	38.3	16.65
6.5	7.97	30.016	38.3	16.851
6.49	7.97	30.016	38.3	16.996
6.47	7.96	30.016	38.3	17.122
6.47	7.96	30.017	38.3	17.231
6.46	7.96	30.017	38.3	18.169
6.45	7.95	30.016	38.3	18.384
6.45	7.95	30.015	38.3	18.51
6.44	7.95	30.014	38.3	18.638
6.43	7.95	30.014	38.3	18.734
6.43	7.95	30.014	38.3	18.824
6.43	7.95	30.015	38.3	18.91
6.43	7.95	30.015	38.3	18.977

112 Table S29 – P21 site depth profile from 2017 campaign.

pH	ODO mg/L	Temp °C	Cond μ S/cm	Depth m
6.83	6.85	30.073	36.7	0.117
6.82	6.87	30.074	36.6	0.161
6.81	6.88	30.082	36.5	0.207
6.82	6.89	30.08	36.4	0.246
6.81	6.89	30.073	36.3	0.269
6.81	6.89	30.071	36.2	0.296
6.81	6.88	30.066	36.1	0.329
6.81	6.87	30.053	36.1	0.362
6.81	6.86	30.036	36	0.419
6.81	6.86	30.031	35.9	0.505
6.81	6.86	30.031	35.9	0.604
6.81	6.86	30.025	35.8	0.718
6.81	6.86	30.017	35.8	0.843
6.81	6.86	30.015	35.8	0.985
6.81	6.86	30.013	35.7	1.137
6.81	6.86	30.011	35.7	1.298
6.8	6.86	30.008	35.7	1.44
6.8	6.85	30.006	35.7	1.577
6.8	6.85	30.004	35.7	1.714
6.8	6.85	30.002	35.7	1.844
6.8	6.85	30.001	35.7	1.97
6.8	6.84	30.001	35.7	2.083
6.81	6.84	30.002	35.7	2.199
6.81	6.84	30.004	35.8	2.321
6.8	6.84	30.001	35.8	2.446
6.8	6.84	29.997	35.8	3.399
6.8	6.84	29.997	35.8	3.577
6.8	6.84	29.999	35.9	3.573
6.79	6.84	30	35.9	3.625
6.79	6.84	29.999	35.9	3.699
6.78	6.84	29.998	35.9	3.772
6.78	6.84	29.996	36	3.847
6.78	6.84	29.994	36	3.929
6.78	6.84	29.993	36.1	4.026
6.78	6.83	29.992	36.1	4.735
6.78	6.83	29.992	36.1	4.741
6.78	6.83	29.992	36.2	4.753
6.78	6.83	29.992	36.2	4.776
6.79	6.83	29.997	36.2	4.824

6.79	6.82	29.998	36.3	4.904
6.79	6.82	29.998	36.3	4.992
6.79	6.82	29.998	36.3	5.766
6.8	6.81	30	36.4	5.884
6.8	6.81	29.998	36.4	5.855
6.8	6.81	29.994	36.5	5.938
6.8	6.81	29.992	36.5	6.017
6.8	6.81	29.992	36.5	6.104
6.8	6.81	29.992	36.5	6.191
6.8	6.81	29.991	36.6	6.276
6.8	6.8	29.991	36.6	6.351
6.8	6.8	29.991	36.6	6.485
6.8	6.8	29.99	36.7	6.622
6.8	6.8	29.99	36.7	6.737
6.79	6.8	29.99	36.7	6.877
6.78	6.8	29.99	36.7	7.778
6.77	6.8	29.99	36.8	7.857
6.77	6.8	29.99	36.8	7.942
6.77	6.8	29.99	36.8	8.071
6.77	6.8	29.99	36.8	8.191
6.77	6.79	29.99	36.8	8.255
6.77	6.8	29.99	36.8	8.313
6.77	6.8	29.99	36.8	8.334
6.77	6.81	29.99	36.9	8.341
6.77	6.82	29.99	36.9	8.377
6.78	6.83	29.991	36.9	8.397
6.77	6.83	29.99	36.9	8.38
6.77	6.83	29.99	36.9	8.349
6.77	6.83	29.99	36.9	8.317
6.76	6.82	29.99	36.9	8.279
6.76	6.81	29.989	36.9	8.271
6.76	6.8	29.989	36.9	8.299
6.75	6.79	29.989	36.9	8.363

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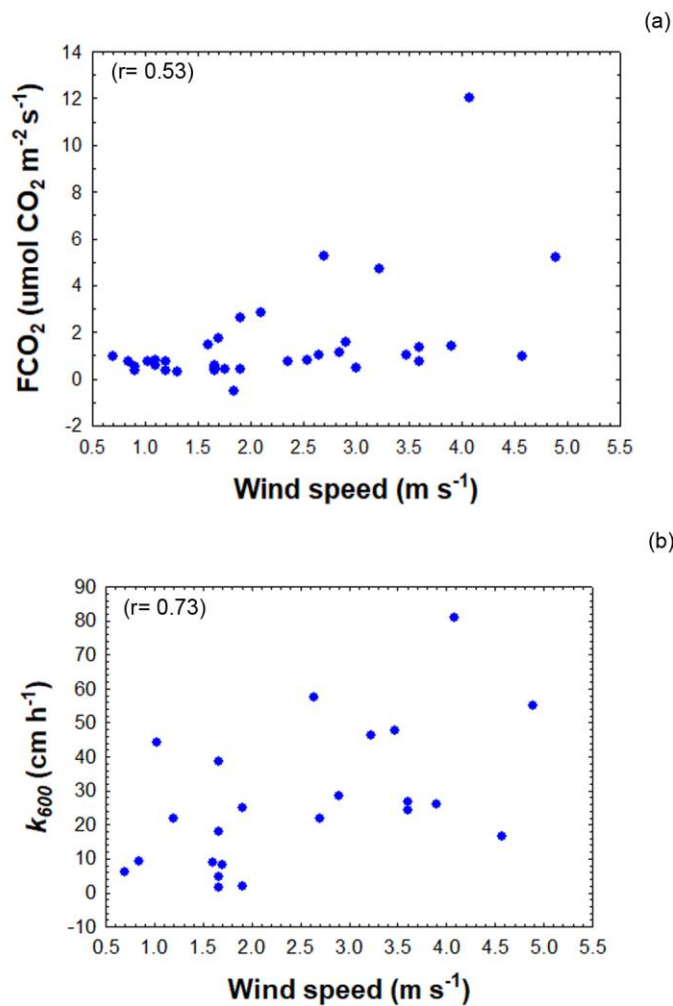
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119 3. k_{600} correlation scatterplots

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122 Fig.1: Scatterplots between FCO₂ (A) and k_{600} (B) as a function of wind speed. Values from
123 figure 5 (A) include high and low water seasons. Figure 5 (B) comprises only high water values
124 for statistical correlation (Spearman correlation). Rho values are located on each image left
125 superior side.